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* * * * * Welcome to STN International * * * * *

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NEWS 5	DEC 14	2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
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NEWS 7	DEC 21	IPC search and display fields enhanced in CA/CAPLUS with the IPC reform
NEWS 8	DEC 23	New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2
NEWS 9	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 10	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS 11	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS 12	JAN 17	IPC 8 in the WPI family of databases including WPIFV
NEWS 13	JAN 30	Saved answer limit increased
NEWS 14	JAN 31	Monthly current-awareness alert (SDI) frequency added to TULSA
NEWS 15	FEB 21	STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS 16	FEB 22	Status of current WO (PCT) information on STN
NEWS 17	FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS 18	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS EXPRESS	FEBRUARY 15	CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT http://download.cas.org/express/v8.0-Discover/
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NEWS INTER		General Internet Information
NEWS LOGIN		Welcome Banner and News Items
NEWS PHONE		Direct Dial and Telecommunication Network Access to STN
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:44:18 ON 28 FEB 2006

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 09:44:27 ON 28 FEB 2006

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STRUCTURE FILE UPDATES: 26 FEB 2006 HIGHEST RN 875270-69-2

DICTIONARY FILE UPDATES: 26 FEB 2006 HIGHEST RN 875270-69-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

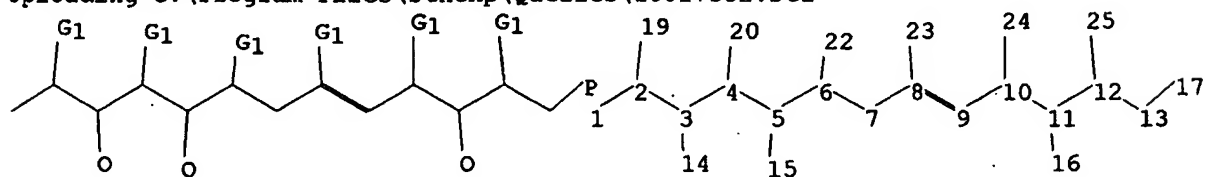
Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10817532.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 19 20 22 23 24 25

chain bonds :

1-2 2-3 2-19 3-4 3-14 4-5 4-20 5-6 5-15 6-7 6-22 7-8 8-9 8-23 9-10
10-11 10-24 11-12 11-16 12-13 12-25 13-17

exact/norm bonds :

2-19 3-14 4-20 5-15 6-22 8-23 10-24 11-16 12-25

exact bonds :

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G1:H,Ak

Match level :

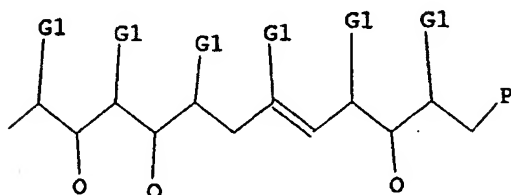
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10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
19:CLASS 20:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 09:44:46 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS
SEARCH TIME: 00.00.01

1 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 4 TO 200
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 09:44:56 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 61 TO ITERATE

100.0% PROCESSED 61 ITERATIONS
SEARCH TIME: 00.00.01

14 ANSWERS

L3 14 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE
ENTRY
166.94

TOTAL
SESSION
167.15

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 09:45:02 ON 28 FEB 2006

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 28 Feb 2006 VOL 144 ISS 10
FILE LAST UPDATED: 27 Feb 2006 (20060227/ED)

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<http://www.cas.org/infopolicy.html>

=> s 13 full

L4 18 L3

=> s 14 and py<2003

22791054 PY<2003

L5 8 L4 AND PY<2003

=> d ibib abs hitstr tot

L5 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:575783 CAPLUS

DOCUMENT NUMBER: 137:125048

TITLE: Preparation of compounds which mimic the chemical and biological properties of discodermolide

INVENTOR(S): Smith, Amos B.; Beauchamp, Thomas J.; Lamarche, Matthew J.

PATENT ASSIGNEE(S): The Trustees of The University of Pennsylvania, USA

SOURCE: U.S. Pat. Appl. Publ., 127 pp., Cont.-in-part of U. S. Ser. No. 455,649.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002103387	A1	20020801	US 2000-730929	20001206 <--
US 6870058	B2	20050322		
US 5789605	A	19980804	US 1996-759817	19961203 <--
US 6031133	A	20000229	US 1998-21878	19980211 <--
US 6242616	B1	20010605	US 1999-455649	19991207 <--
CA 2431045	AA	20020613	CA 2001-2431045	20011206 <--
WO 2002046150	A2	20020613	WO 2001-US47958	20011206 <--
WO 2002046150	A3	20020613		

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,

CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG,
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

AU 2002027375 A5 20020618 AU 2002-27375 20011206 <--
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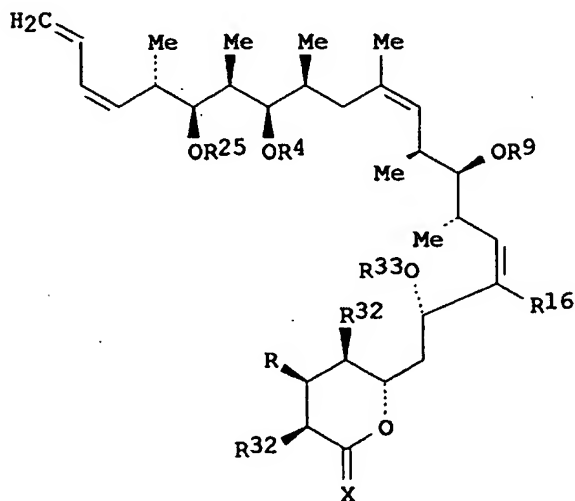
ZA 2003004259 A 20050425 ZA 2003-4259 20030530
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 MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1996-759817 A2 19961203
 US 1998-21878 A2 19980211
 US 1999-455649 A2 19991207
 US 1998-121551 A2 19980723
 US 2000-730929 A 20001206
 WO 2001-US47958 W 20011206
 US 2004-779049 A 20040213

OTHER SOURCE(S): MARPAT 137:125048
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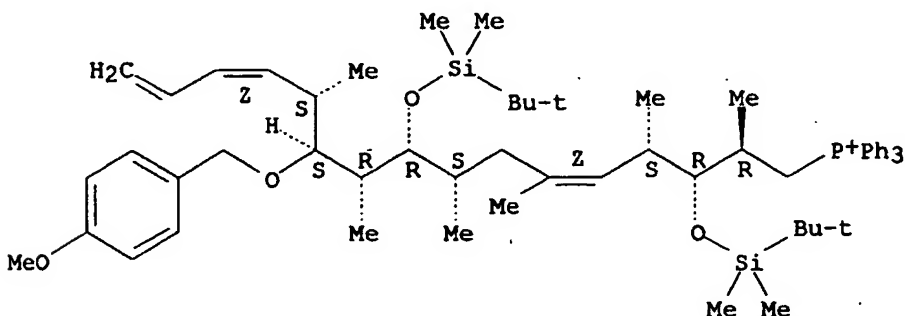
AB Discodermolide analogs, such as I [R = H, OR33; X = H2, O; R4, R9, R33 = H, acid labile protecting group; R25 = H, oxidatively labile protecting group; R16, R32 = H, alkyl], were prepared Synthetic routes to both (-)- and (+)-discodermolide were presented.

IT 252342-54-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of compds. which mimic the chemical and biol. properties of discodermolide)

RN 252342-54-4 CAPLUS

CN Phosphonium, [(2R,3R,4S,5Z,8S,9R,10R,11S,12S,13Z)-3,9-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-11-[(4-methoxyphenyl)methoxy]-2,4,6,8,10,12-hexamethyl-5,13,15-hexadecatrienyl]triphenyl-, iodide (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



● I⁻

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:449643 CAPLUS
DOCUMENT NUMBER: 137:33164
TITLE: Preparation of compounds which mimic the chemical and biological properties of discodermolide
INVENTOR(S): Smith, Amos B., III; Beauchamp, Thomas J.; Lamarche, Matthew J.
PATENT ASSIGNEE(S): The Trustees of the University of Pennsylvania Center for Technology Transfer, USA
SOURCE: PCT Int. Appl., 267 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

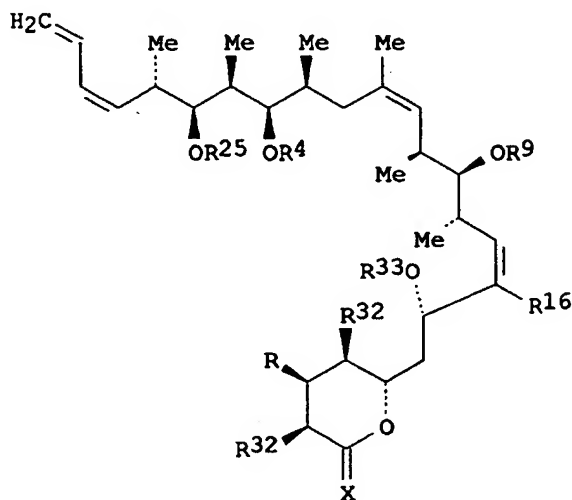
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US 6870058	B2	20050322		
CA 2431045	AA	20020613	CA 2001-2431045	20011206 <--
AU 2002027375	A5	20020618	AU 2002-27375	20011206 <--

EP 1585725 A2 20051019 EP 2001-996231 20011206
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 IE, FI, CY, TR
 WO 2005079378 A2 20050901 WO 2005-US4643 20050211
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 MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2000-730929 A 20001206
 US 1996-759817 A2 19961203
 US 1998-21878 A2 19980211
 US 1999-455649 A2 19991207
 WO 2001-US47958 W 20011206
 US 2004-779049 A 20040213

OTHER SOURCE(S): MARPAT 137:33164
 GI



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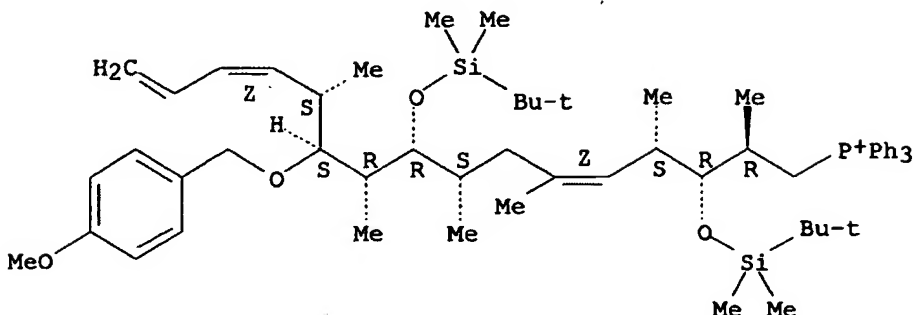
AB Discodermolide analogs, such as I [R = H, OR33; X = H2, O; R4, R9, R33 = H, acid labile protecting group; R25 = H, oxidatively labile protecting group; R16, R32 = H, alkyl], were prepared. Synthetic routes to both (-)- and (+)-discodermolide were presented.

IT 252342-54-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of compds. which mimic the chemical and biol. properties of discodermolide)

RN 252342-54-4 CAPLUS

CN Phosphonium, [(2R,3R,4S,5Z,8S,9R,10R,11S,12S,13Z)-3,9-bis[(1,1-dimethylethyl)dimethylsilyl]oxy]-11-[(4-methoxyphenyl)methoxy]-2,4,6,8,10,12-hexamethyl-5,13,15-hexadecatrienyl]triphenyl-, iodide (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



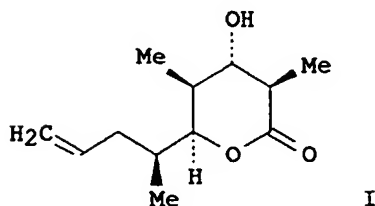
● I⁻

L5 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:123244 CAPLUS
 DOCUMENT NUMBER: 136:183657
 TITLE: Process for the biomediated preparation of intermediates for use in the synthesis of polyketides, such as epothilone D and discodermolide
 INVENTOR(S): Santi, Daniel V.; Ashley, Gary; Myles, David C.
 PATENT ASSIGNEE(S): Kosan Biosciences, Inc., USA
 SOURCE: PCT Int. Appl., 129 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002012534	A2	20020214	WO 2001-US25112	20010809 <--
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WO 2001092991	A2	20011206	WO 2001-US17352	20010529 <--
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JP 2004520008	T2	20040708	JP 2002-517818	20010809
PRIORITY APPLN. INFO.:			US 2000-224038P	P 20000809
			US 2000-237382P	P 20001004
			US 2000-248387P	P 20001113
			US 2001-867845	A 20010529
			US 2000-207331P	P 20000530
			WO 2001-US25112	W 20010809

OTHER SOURCE(S): CASREACT 136:183657; MARPAT 136:183657
GI



AB The present invention relates to compds., such as I, made by a subset of modules from one or more polyketide synthase ("PKS") genes that are used as starting material in the chemical synthesis of novel mols., particularly naturally occurring polyketides or derivs. thereof. The biol. derived intermediates ("bio-intermediates") generally represent particularly difficult compds. to synthesize using traditional chemical approaches due to one or more stereocenters. In one aspect of the invention, an intermediate in the synthesis of epothilone is provided that feeds into the synthetic protocol of Danishefsky and co-workers. In another aspect of the invention, intermediates in the synthesis of discodermolide are provided that feed into the synthetic protocol of Smith and co-workers. By taking advantage of the inherent stereochem. specificity of biol. processes, the syntheses of key intermediates and thus the overall syntheses of compds. like epothilone and discodermolide are greatly simplified.

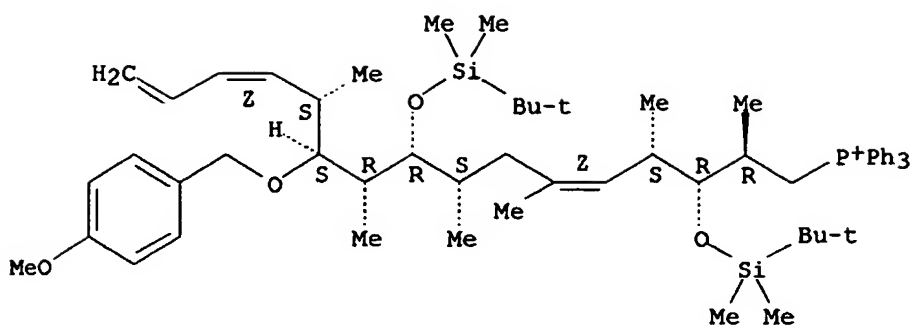
IT 252342-54-4P

RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (process for the biomediated preparation of intermediates for use in the synthesis of polyketides, such as epothilone D and discodermolide)

RN 252342-54-4 CAPLUS

CN Phosphonium, [(2R,3R,4S,5Z,8S,9R,10R,11S,12S,13Z)-3,9-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-11-[(4-methoxyphenyl)methoxy]-2,4,6,8,10,12-hexamethyl-5,13,15-hexadecatrienyl]triphenyl-, iodide (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



● I-

L5 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2006 ACS. on STN

ACCESSION NUMBER: 2001:412212 CAPLUS

DOCUMENT NUMBER: 135:19496

TITLE: Preparation of intermediates for the synthesis of discodermolides and their polyhydroxy dienyl lactone derivatives for pharmaceutical use

INVENTOR(S): Smith, Iii Amos B.; Beauchamp, Thomas J.; Lamarche, Matthew J.; Arimoto, Hirokazu

PATENT ASSIGNEE(S): The Trustees of the University of Pennsylvania, USA

SOURCE: U.S., 126 pp., 6096904 Cont.-in-part of U.S.

6,096,904.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6242616	B1	20010605	US 1999-455649	19991207 <--
US 5789605	A	19980804	US 1996-759817	19961203 <--
US 6031133	A	20000229	US 1998-21878	19980211 <--
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CA 2393968	AA	20010614	CA 2000-2393968	20001206 <--
WO 2001042179	A1	20010614	WO 2000-US32996	20001206 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2002103387	A1	20020801	US 2000-730929	20001206 <--
US 6870058	B2	20050322		
EP 1248761	A1	20021016	EP 2000-983924	20001206 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003531110	T2	20031021	JP 2001-543482	20001206
US 2005065353	A1	20050324	US 2004-779049	20040213
WO 2005079378	A2	20050901	WO 2005-US4643	20050211
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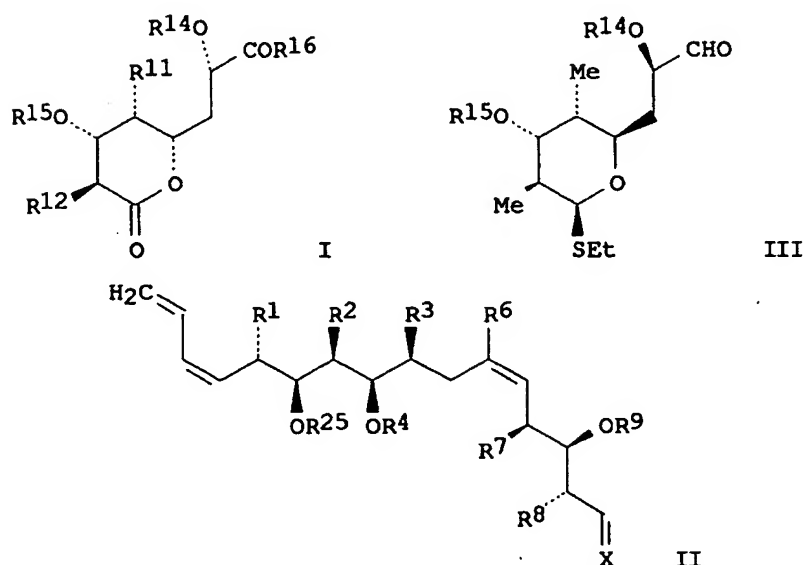
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 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 1996-759817	A1 19961203
US 1998-21878	A1 19980211
US 1998-121551	A2 19980723
US 1999-455649	A 19991207
US 2000-730929	A1 20001206
WO 2000-US32996	W 20001206
US 2004-779049	A 20040213

OTHER SOURCE(S): CASREACT 135:19496; MARPAT 135:19496

GI



AB Preparation of intermediates, such as I [R11, R12 = alkyl; R14, R15 = acid labile protecting groups; R16 = H, alkyl] and II [R1, R2, R7, R8 = alkyl; R3, R6, R16 = H, alkyl; R4, R9 = acid labile hydroxyl protecting group; R25 = oxidatively labile hydroxyl protecting group; X = :C(J)R16, a Wittig olefination formed from a pyranalkyl ketone, such as I and II (X = P+Ph3I-)], for the synthesis of discodermolides and their analogs, which are useful as pharmaceuticals, was presented. Thus, synthon III (R14 = R15 = SiMe2CMe3) was prepared via a multistep synthetic sequence starting from (2R)-3-hydroxy-2-methylpropanoic acid Me ester. The synthetic utility of II was subsequently demonstrated by its use in the preparation of (-)-discodermolide.

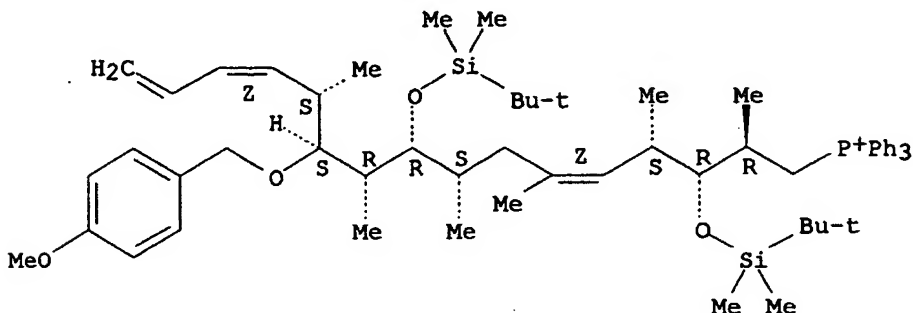
IT 252342-54-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of intermediates for the synthesis of discodermolides and their polyhydroxy dienyl lactone derivs. for pharmaceutical use)

RN 252342-54-4 CAPLUS
CN Phosphonium, [(2R,3R,4S,5Z,8S,9R,10R,11S,12S,13Z)-3,9-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-11-[(4-methoxyphenyl)methoxy]-2,4,6,8,10,12-hexamethyl-5,13,15-hexadecatrienyl]triphenyl-, iodide (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



● I⁻

REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:597937 CAPLUS

DOCUMENT NUMBER: 133:335118

TITLE: Evolution of a Gram-Scale Synthesis of (+)-Discodermolide

AUTHOR(S): Smith, Amos B., III; Beauchamp, Thomas J.; LaMarche, Matthew J.; Kaufman, Michael D.; Qiu, Yuping; Arimoto, Hirokazu; Jones, David R.; Kobayashi, Kaoru
CORPORATE SOURCE: Department of Chemistry Monell Chemical Senses Center and Laboratory for Research on the Structure of Matter, University of Pennsylvania, Philadelphia, PA, 19104, USA

SOURCE: Journal of the American Chemical Society (2000), 122(36), 8654-8664
CODEN: JACSAT; ISSN: 0002-7863

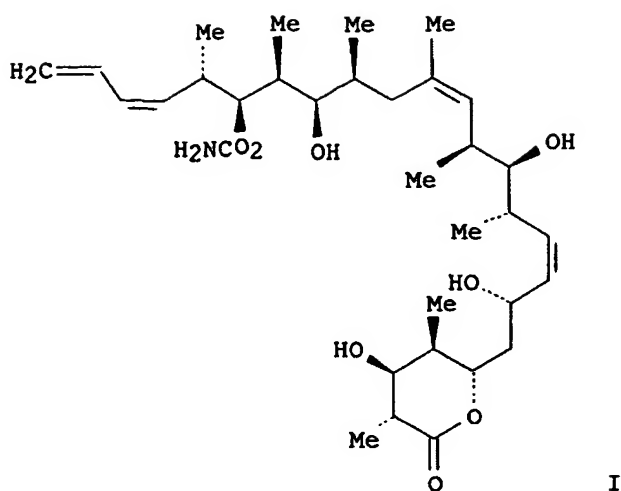
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 133:335118

GI



AB An efficient, highly convergent, stereocontrolled total synthesis of the potent antimitotic agent (+)-discodermolide (I) has been achieved on gram scale. Key elements of the successful strategy include (1) elaboration of three advanced fragments from a common precursor (CP) which embodies the repeating stereochem. triad of the discodermolide backbone, (2) σ -bond installation of the Z trisubstituted olefin, exploiting a modified Negishi cross-coupling reaction, (3) synthesis of a late-stage phosphonium salt utilizing high pressure, and (4) Wittig installation of the Z disubstituted olefin and the terminal (Z)-diene.

IT 252342-54-4P

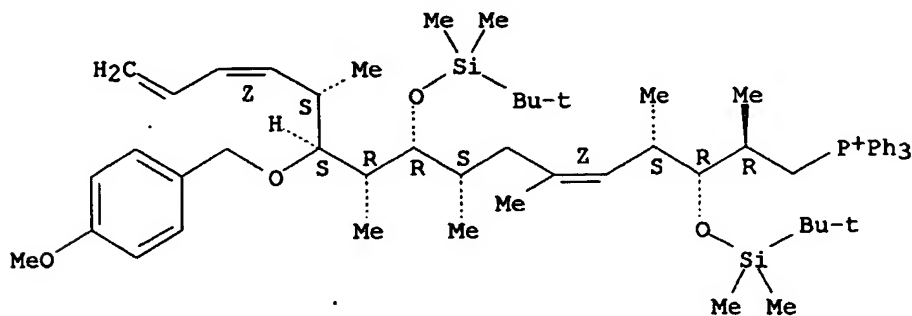
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(evolution of a gram-scale synthesis of (+)-discodermolide)

RN 252342-54-4 CAPLUS

CN Phosphonium, [(2R,3R,4S,5Z,8S,9R,10R,11S,12S,13Z)-3,9-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-11-[(4-methoxyphenyl)methoxy]-2,4,6,8,10,12-hexamethyl-5,13,15-hexadecatrienyl]triphenyl-, iodide (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



● I⁻

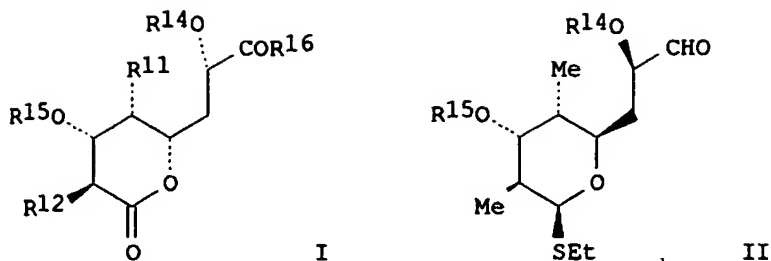
REFERENCE COUNT:

101 THERE ARE 101 CITED REFERENCES AVAILABLE FOR

THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L5 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:531688 CAPLUS
DOCUMENT NUMBER: 133:135166
TITLE: Preparation of intermediates for the synthesis of
discodermolides and their polyhydroxy dienyl lactone
derivatives for pharmaceutical use
INVENTOR(S): Smith, Amos B., III; Qiu, Yuping; Kaufman, Michael;
Arimoto, Hirokazu; Jones, David R.; Kobayashi, Kaoru;
Beauchamp, Thomas J.
PATENT ASSIGNEE(S): The Trustees of the University of Pennsylvania, USA
SOURCE: U.S., 83 pp., Cont.-in-part of U.S. 5,789,605.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6096904	A	20000801	US 1998-121551	19980723 <--
US 5789605	A	19980804	US 1996-759817	19961203 <--
CA 2338310	AA	20000203	CA 1999-2338310	19990720 <--
WO 2000004865	A2	20000203	WO 1999-US16369	19990720 <--
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RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9952190	A1	20000214	AU 1999-52190	19990720 <--
AU 749844	B2	20020704		
EP 1105383	A2	20010613	EP 1999-937330	19990720 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002521317	T2	20020716	JP 2000-560858	19990720 <--
US 6242616	B1	20010605	US 1999-455649	19991207 <--
US 2005065353	A1	20050324	US 2004-779049	20040213
WO 2005079378	A2	20050901	WO 2005-US4643	20050211
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 1996-759817	A2 19961203
			US 1998-21878	A1 19980211
			US 1998-121551	A 19980723
			WO 1999-US16369	W 19990720
			US 1999-455649	A2 19991207
			US 2000-730929	A1 20001206
			US 2004-779049	A 20040213
OTHER SOURCE(S):			MARPAT 133:135166	
GI				



AB Preparation of intermediates, such as I [R11, R12 = alkyl; R14, R15 = acid labile protecting groups; R16 = H, alkyl], for the synthesis of discodermolides and their analogs, which are useful as pharmaceuticals, was presented. Thus, synthon II (R14 = R15 = SiMe₂CMe₃) was prepared via a multistep synthetic sequence starting from (2R)-3-hydroxy-2-methylpropanoic acid Me ester. The synthetic utility of II was subsequently demonstrated by its use in the preparation of (-)-discodermolide.

IT 252342-54-4P

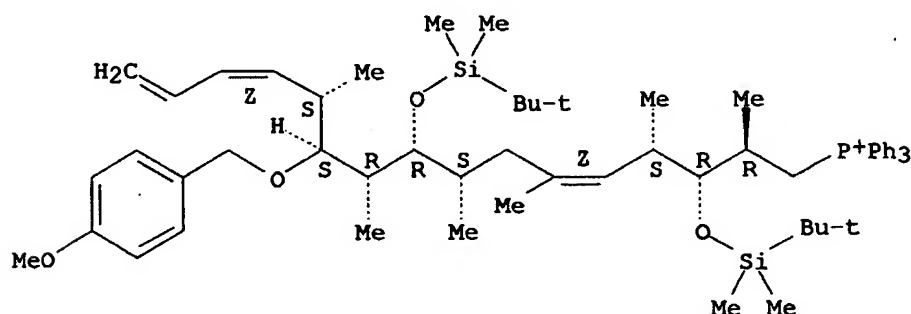
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of intermediates for the synthesis of discodermolides and their polyhydroxy dienyl lactone derivs. for pharmaceutical use)

RN 252342-54-4 CAPLUS

CN Phosphonium, [(2R,3R,4S,5Z,8S,9R,10R,11S,12S,13Z)-3,9-bis[(1,1-dimethylethyl)dimethylsilyl]oxy]-11-[(4-methoxyphenyl)methoxy]-2,4,6,8,10,12-hexamethyl-5,13,15-hexadecatrienyl}triphenyl-, iodide (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



● I⁻

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:84572 CAPLUS

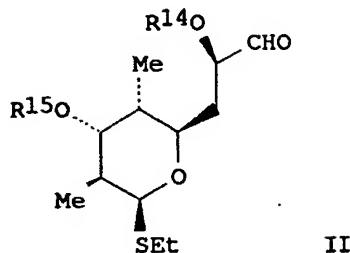
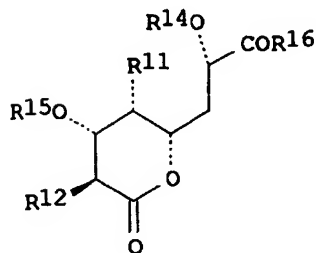
DOCUMENT NUMBER: 132:137207

TITLE: Preparation of intermediates for the synthesis of discodermolides and their polyhydroxy dienyl lactone derivatives for pharmaceutical use

INVENTOR(S): Smith, Amos B. Iii; Qiu, Yuping; Kaufman, Michael; Arimoto, Hirokazu; Jones, David R.; Kobayashi, Kaoru; Beauchamp, Thomas J.

PATENT ASSIGNEE(S): The Trustees of the University of Pennsylvania, USA
 SOURCE: PCT Int. Appl., 201 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000004865	A2	20000203	WO 1999-US16369	19990720 <--
WO 2000004865	A3	20000921		
W: AU, CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6096904	A	20000801	US 1998-121551	19980723 <--
CA 2338310	AA	20000203	CA 1999-2338310	19990720 <--
AU 9952190	A1	20000214	AU 1999-52190	19990720 <--
AU 749844	B2	20020704		
EP 1105383	A2	20010613	EP 1999-937330	19990720 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002521317	T2	20020716	JP 2000-560858	19990720 <--
WO 2005079378	A2	20050901	WO 2005-US4643	20050211
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 1998-121551	A 19980723
			US 1996-759817	A2 19961203
			WO 1999-US16369	W 19990720
			US 2004-779049	A 20040213
OTHER SOURCE(S):			MARPAT 132:137207	
GI				



AB Preparation of intermediates, such as I [R11, R12 = alkyl; R14, R15 = acid labile protecting groups; R16 = H, alkyl], for the synthesis of discodermolides and their analogs, which are useful as pharmaceuticals, was presented. Thus, synthon II (R14 = R15 = SiMe₂CMe₃) was prepared via a multistep synthetic sequence starting from (2R)-3-hydroxy-2-methylpropanoic acid Me ester. The synthetic utility of II was

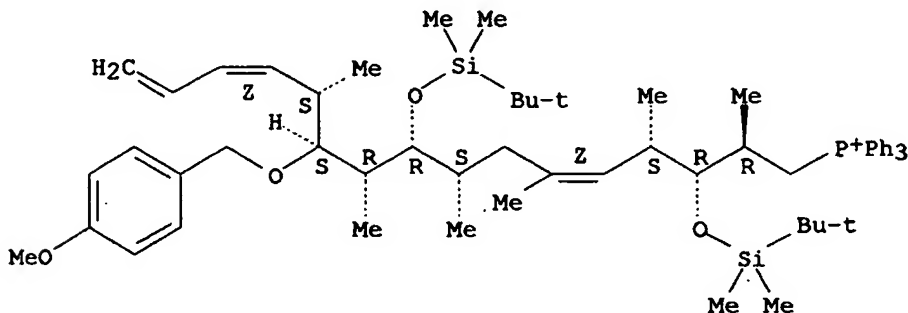
subsequently demonstrated by its use in the preparation of (-)-discodermolide.

IT 252342-54-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of intermediates for the synthesis of discodermolides and their
 polyhydroxy dienyl lactone derivs. for pharmaceutical use)

RN 252342-54-4 CAPLUS

CN Phosphonium, [(2R,3R,4S,5Z,8S,9R,10R,11S,12S,13Z)-3,9-bis[[(1,1-
 dimethylethyl)dimethylsilyl]oxy]-11-[(4-methoxyphenyl)methoxy]-
 2,4,6,8,10,12-hexamethyl-5,13,15-hexadecatrienyl]triphenyl-, iodide (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
 Double bond geometry as shown.



● I⁻

L5 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:694867 CAPLUS

DOCUMENT NUMBER: 132:35548

TITLE: Gram-Scale Synthesis of (+)-Discodermolide

AUTHOR(S): Smith, Amos B., III; Kaufman, Michael D.; Beauchamp,
 Thomas J.; LaMarche, Matthew J.; Arimoto, Hirokazu

CORPORATE SOURCE: Department of Chemistry Monell Chemical Senses Center
 and Laboratory for Research on the Structure of
 Matter, University of Pennsylvania, PA, 19104, USA

SOURCE: Organic Letters (1999), 1(11), 1823-1826
 CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

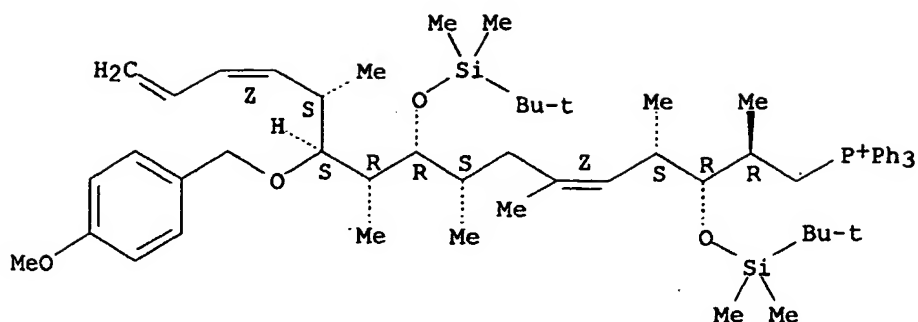
AB A triply convergent, highly efficient second-generation synthesis of the
 potent antimitotic agent (+)-discodermolide has been achieved on a 1-g
 scale.

IT 252342-54-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (gram-scale synthesis of (+)-discodermolide)

RN 252342-54-4 CAPLUS

CN Phosphonium, [(2R,3R,4S,5Z,8S,9R,10R,11S,12S,13Z)-3,9-bis[[(1,1-
 dimethylethyl)dimethylsilyl]oxy]-11-[(4-methoxyphenyl)methoxy]-
 2,4,6,8,10,12-hexamethyl-5,13,15-hexadecatrienyl]triphenyl-, iodide (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
 Double bond geometry as shown.



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REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE 'REGISTRY' ENTERED AT 09:44:27 ON 28 FEB 2006

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L2 1 S L1
L3 14 S L1 FULL

FILE 'CAPLUS' ENTERED AT 09:45:02 ON 28 FEB 2006

L4 18 S L3 FULL
L5 8 S L4 AND PY<2003

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FULL ESTIMATED COST	43.29	210.44
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-6.00	-6.00

STN INTERNATIONAL LOGOFF AT 09:45:48 ON 28 FEB 2006